PDS Design Scoping Checklist

Project Information

District ____ County _____ Route _____ Kilometer Post (Post Mile) _____ EA _____

Description_____

_____

_____

_____

Project Manager _____ Phone # _____

Project Engineer _____ Phone # _____

Design Functional Manager_____ Phone # _____

Project Development Coordinator_____ Phone # _____

(Instructions for filling out)

Describe and identify in the following sections a general description of all improvements anticipated as part of the project scope. Analyze the existing highway system and identify improvements necessary to solve the transportation problem. The design improvements should be discussed in sufficient detail to identify the project's major geometric features. Also discuss in detail any planned roadbed widths that are less than standard widths. Address roadside improvements. Discuss any design issues that may be controversial during development of the environmental document. Approval of the alternatives to be studied must be obtained from the Project Development Coordinator. This checklist is not to be considered all encompassing but to identify major aspects of the project. Checking the box means yes or maybe. If left unchecked it implies no, but does not preclude one from validating the impacts during the Project Report phase.

Project Screening

(Attach the project location map to this checklist to show location of all design improvements anticipated)

1. Project Description as Noted in Regional Transportation Plan:_____

_____

2. Project Setting _____

   Rural or Urban _____

   Current land uses _____

   Adjacent land uses _____
   (industrial, light industry, commercial, agricultural, residential, etc.)
   Existing landscaping/planting_____

3. Route Adoption: Date _____ Type of Facility (Freeway, Controlled Access Highway, or Conventional Highway) _____

   Freeway Agreement: Date _____

Description of the Transportation Problem

_____

_____

_____

_____

_____

Proposed Scope of Work

_____

_____

_____

_____

_____

_____

_____

_____

The following pages are to be used for each alternative provided that the scope is significantly different. Bear in mind that if a route has been adopted as a Freeway we may not necessarily be designing to those standards. We may design for Conventional Highway standards as a stop-gap. This needs to be identified in the scoping checklist. Under the Roadway Design Scoping section each block needs to be checked if an alternative has a listed feature or activity to be studied.

Design Criteria

Type of facility to be considered? (more than one may apply)

Freeway Expressway Conventional Highway Urban Street

Other (specify) _____

Design Speed for highway facilities within the project limit? _____ km/hr

Design Period: Construction Year is? _____ Design Year is?_____

Design Capacity: Level of Service to be maintained over the design period is?

Mainline _____ Ramp _____ Local Street _____ Weaving Sections _____

Design Vehicle Selection?

STAA_____ California _____ Bus_____

Proposed Roadbed and Structure Widths

Forecasted Average Daily Traffic Volumes_____
Percent Truck Volume _____%

	Roadbed Width Existing / Proposed / Standard			Structure Width Existing / Proposed / Standard		
State highway						
Lane Widths						
Left Shoulder						
Right Shoulder						
Median Width						
Bicycle Lane						
Local Street						
Lane Widths						
Left Shoulder						
Right Shoulder						
Median Width						

Bicycle Lane _____ _____ _____ _____ _____ _____

Any proposed roadbed widths less than standard should be discussed with the Project Development Coordinator to determine if the proposed non-standard feature results in a feasible project alternative for further study during preparation of the environmental document.

Median Barrier Existing _____
Proposed (Concrete Barrier / Thrie Beam / Other) _____

Roadway Design Scoping

Mainline Operations

Mainline Highway Widening
Existing pavement to be rehabilitated with Asphalt Concrete / Rubberized AC / PCC.
Widen existing _____ lane facility to _____ lanes. R/W acquisition for _____ lanes.
Local street structures to span _____ lanes of highway (for future requirements).
Upgrade existing facility to:

❑ Expressway Standards ❑ Freeway Standards
❑ Controlled Access Highway ❑ Traversable Highway
❑ Improve Vertical Clearance ❑ Adequate Falsework Clearance

Ramp / Street Intersection Improvements

❑ New Signals ❑ Modify Signals
❑ Right Turn Lanes ❑ Widening For Localized Through Lanes
❑ Merging Lanes ❑ Deceleration / Acceleration Lanes
❑ Left Turn Lanes ❑ > 300 VPH Left Turn (Requires Double Left Turn)
❑ Interchange Spacing ❑ Ramps Intersect Local Street < 4 % Grade
❑ Intersection Spacing ❑ Exit Ramps > 1,500 VPH Designed As Two Lane Exit
❑ Single Lane Ramps Exceeding 300 M Widened To Two Lanes
❑ Other_____

Operational Improvements

Truck Climbing Lane
❑ Sustained Grade Exceeding 2% And Total Rise Exceeds 15 M.
❑ Other_____
Auxiliary Lanes
❑ When 600 M Between Successive On-Ramps.
❑ Two Lane Exit Ramps Have 400 M Auxiliary Lane.
❑ Weaving < 500 M between Off-Ramp and On-Ramp.
❑ Other_____

Right of Way Access Control

❑ Existing access control extends at least 15 m beyond end of curb return, radius or taper.
❑ New construction access control extends at least 30 m (urban areas) or 100 m (rural areas) beyond end of curb returns, radius or taper.
❑ Other_____

Highway Planting

❑ Replacement
❑ Median
❑ Mitigation

Safety

❑ Off-Freeway Access
❑ Maintenance Vehicle Pull-Out

Roadside Management

❑ Slope paving
❑ Gore paving
❑ Roadside paving

Stormwater

❑ Erosion control
❑ Drainage
❑ Slope design

Structures

❑ New Bridge
❑ Bridge Rehab
❑ Retaining Wall
❑ Other _____
❑ On STRAIN list for _____

Additional Studies

Identify additional studies that may be required including resources and schedules.

_____

_____

_____

_____

_____

Preliminary Evaluation provided by:

Project Engineer_____ Date _____

Design Manager _____ Date _____

Design Concept approved by:

Project Development Coordinator _____ Date _____

Conceptual approval in no way implies that any non-standard features currently identified or identified in the future will be approved. Non-standard features will need to be identified, fully analyzed and justified prior to approval (via a design exception fact sheet) of the selected alternative.

Reviewed by:

Project Manager _____ Date _____